

## INTRODUCTION:

Proposed project begins at SR 264 MP 395.65 through Polacca Valley and is a major roadway that would be described as to construct grade/drain, paved, cattle passes and fencing.

The project is located in the Navajo County on BIA Route 60 North near the town of Polacca, beginning at Arizona State Highway 264, North for a total distance of 13.70 miles unimproved road to Navajo Route 65. This proposed project is on the Hopi Indian Reservation Road System and is listed number two priority as of May 19, 2003.

The project is not listed in FY 2003 Transportation Improvement Plan (TIP) and would require to be adjusted to be part of TIP. The total estimated construction cost is \$13,320,000 with preliminary engineering costs of \$1,480,000. The total estimated project cost is \$14,800,000. This project will utilize Federal funds.

The purpose of this project is to make improvement from unimproved dirt road onto grade/drain and pavement for the safety of school transportation.

## TRAFFIC DATA:

As reported by the Data Team of the Navajo Nation Transportation Department, the assigned average daily traffic (ADT) on this segment of Low Mountain Road for 1999 (data year) is 439 vehicles per day (vpd). The projected ADT for 2005 (design year) is as high as 653 vpd as represented in the Traffic Study prepared for this project.

The project is located on Indian Nation Land and hence comprehensive accident data may not be available.

## PROJECT SCOPE:

The project limits will begin at approximate MP 395.65 / SR 264 intersection BIA Route 60 N and due North for 13.70 miles end of project at N65. The project limits has been identified by joint Hopi and Navajo Tribe.

The proposed improvements include grade/drain, cattle passes, ROW fencing, paved two-lane roadway, center and both shoulder traffic markings and install sign/post.

Proposed improvements will also include major drainage enhancements in association with the proposed roadway construction improvements. The proposed drainage improvements include replacing all existing pipe culverts and install to better locations, design and install large drainage structure and constructing riprap for erosion control.

A description of the limits and scope of improvements is as follows:

Beginning of project (BOP) inside SR264 identified by MP395.65 right angle intersection with

BIA Route 60N. Inside SR264 West Bound approaching BOP to extend existing concrete box culvert, locate buried six inch water line and relocate, remove 1-4 unit cattle guard and may require a turning lane.

MP 0.11:

Remove 1-Power Pole and relocate, remove 1-Mobile Home Trailer and relocate.

MP 0.15 TO MP 0.70

May have to get Temporary Construction Easement (TCE) to construct frontage streets on both side to avoid to many approaches.

MP 1.70 to MP 2.0

Construct one cattle pass for sheep crossing. There are no cattle in this area, only sheep. Select a borrow pit at 300 feet East 300 feet x 300 feet with haul road.

MP 2.90

Remove 1-2 unit cattle guard and install 1-concrete cattle pass.

MP 5.00

Select a borrow pit at 400 feet East 300 feet x 500 feet with haul road.

MP 6.40

Construct one concrete cattle pass through drainage crossing.

MP 6.60

Note: This location has a cattle trail crossing to water source on the West side at first flowing well with two native Hopi stone house structure, one on each side of the centerline.

MP 7.5

Construct one concrete cattle pass to replace an equalizer drainage culvert.

MP 8.00

Select a borrow pit at 500 feet East 300 feet x 300 feet with haul road.

MP 8.85

Construct one concrete cattle pass through a large dry wash. Existing charco dikes on the upper side (East) keeps drainage from flowing.

MP 9.70

Construct rip rap on the West side through large wash "U" turn and eroding embankment towards the existing roadway and onto proposed roadway and rechannel main drainage away from eroding area.

MP 9.80

Existing large wash crossing (Echo Canyon). To install 2-11 feet diameter culvert with concrete

rip rap or walls.

MP 10.8

Remove 1-2 unit cattle guard located at the Hopi District Boundary.

MP 11.00

Select borrow pit at 800 feet East 300 feet x 300 feet with haul road and at this same location at 150 feet East to designate a staging area 500 feet x 500 feet through existing (previously used as hot plant site) located inside Hopi Partitioned Lands.

MP 12.00

Construct one Concrete Cattle Pass through existing flood plains.

MP 12.50

Select borrow pit at 500 feet East 300 feet x 300 feet with haul road.

MP 13.60 / 13.70

End of project (EOP), make a transition into existing paved surface Navajo Route N65.

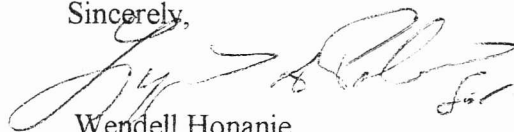
Note: Right-of-Way fence will be constructed along with concrete cattle passes, excavation through hills and fill in low areas. Both sides will have drainage ditches and some places will have drainage culverts placed with drainage channels. All back slopes will be at a 6:1 slope with 4:1 slope through embankment areas. The finished roadway will be 26.0 feet wide. Access of water will come from Polacca and Keams Canyon, both may have to provide gray water. Most of the center alignment has been found and the line has to be reestablished at every 100 feet intervals prior to archaeological surveys.

**ADDITIONAL ALIGNMENT CLEARANCES**

SR264 approximate MP 395.48 is located further West proposed reroute of center line to avoid going through cluster Hopi residential area identified as Stick and Spider Clan Area with a right angle approach due North for approximately one mile and transition back on original approved ROW. This alignment was selected by members of the clan leaders for better site distance from the East side into a proposed intersection for safety incase the original ROW approach don't meet ADOT's requirement.

Any questions, call Herbert Begay, Jr. at Hopi Roads, (928) 738-2220.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Wendell Honanie', with a stylized flourish at the end.

Wendell Honanie  
Superintendent